

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.13.f WXY (PEER 5) CHIPMUNK TESTS

| C-A-OPM Procedures in which this Attachment is used. | | |
|--|--|--|
| 4.120.13 | | |
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Hand Processed Changes

| <u>HPC No.</u> | <u>Date</u> | <u>Page Nos.</u> | <u>Initials</u> |
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Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman Date

V. Castillo

4.120.13.f WXY (PEER 5) Chipmunk Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head's Name (Print): _____ Life Number: _____

Safety Section Head's Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print): _____ Life Number: _____

RSC Member's Name (Sign): _____ Date: ____/____/____

| | | | |
|--------------------------|---|--|----------------------------|
| 1.1 | TEST | Chipmunk C216 located at Thompson Rd at Y in MODE 2 | |
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | DETACH | Cable from Chipmunk | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk as | TRIP & FAILSAFE |
| <input type="checkbox"/> | VERIFY | Attempt to reset Trip & Failsafe at MCR | FAIL |
| | CONNECT | Chipmunk Test box to the Chipmunk cable | |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | PRESS | Div A trip button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div A Chipmunk | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | Div B trip button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div B Chipmunk | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | A & B Div Trip buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | A & B Div Fail buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | FAILSAFE |
| | RESET | Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | Failsafe is | RESET |
| | DETACH | Chipmunk Test box from cable | |
| | CONNECT | Chipmunk to cable | |
| <input type="checkbox"/> | VERIFY | Chipmunk is | CHIRPING |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk C216 in Mode 2 | | |

| | | | |
|--------------------------|---|--|----------------------------|
| 1.2 | TEST | Chipmunk C217 located at Thompson Rd at X in MODE 2 | |
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | DETACH | Cable from Chipmunk | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk as | TRIP & FAILSAFE |
| <input type="checkbox"/> | VERIFY | Attempt to reset Trip & Failsafe at MCR | FAIL |
| | CONNECT | Chipmunk Test box to the Chipmunk cable | |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | PRESS | A & B Div Trip buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | Div A fail button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div A Chipmunk | FAILSAFE |
| | RESET | Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | Failsafe is | RESET |
| | PRESS | Div B fail button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div B Chipmunk | FAILSAFE |
| | RESET | Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | Failsafe is | RESET |
| | PRESS | A & B Div Fail buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | FAILSAFE |
| | RESET | Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | Failsafe is | RESET |
| | DETACH | Chipmunk Test box from cable | |
| | CONNECT | Chipmunk to cable | |
| <input type="checkbox"/> | VERIFY | Chipmunk is | CHIRPING |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk C217 in Mode 2 | | |

- 1.3 **TEST** Chipmunk **C218 located at WGE-2 in MODE 2**
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|--------------------------|----------------|--|----------------------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | DETACH | Cable from Chipmunk | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk as | TRIP & FAILSAFE |
| <input type="checkbox"/> | VERIFY | Attempt to reset Trip & Failsafe at MCR | FAIL |
| | CONNECT | Chipmunk Test box to the Chipmunk cable | |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
| | PRESS | Div A trip button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div A Chipmunk | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | Div B trip button on test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Div B Chipmunk | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | A & B Div Trip buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | INTERLOCK |
| | RESET | Interlock at MCR | |
| <input type="checkbox"/> | VERIFY | Interlock is | RESET |
| | PRESS | A & B Div Fail buttons simultaneously on the test box | |
| <input type="checkbox"/> | VERIFY | MCR sees the Chipmunk as | FAILSAFE |
| | RESET | Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | Failsafe is | RESET |
| | DETACH | Chipmunk Test box from cable | |
| | CONNECT | Chipmunk to cable | |
| <input type="checkbox"/> | VERIFY | Chipmunk is | CHIRPING |
| | RESET | Interlock & Failsafe at MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Chipmunk: Div A <input type="checkbox"/> and Div B <input type="checkbox"/> as | O.K. |
- ☐ **Check for acceptance of Test Chipmunk C218 in Mode 2**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____